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Titolo	Syngas [[electronic resource]] : production methods, post treatment and economics / / Adorjan Kurucz and Izsak Bencik, editors
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Altri autori (Persone)	KuruczAdorjan BencikIzsak
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Stage of deployment of syngas cleaning technologies and RD&D needs to accomplish the new challenges of syngas utilization / Filomena Pinto, Rui Neto Andre and I. Gulyurtlu -- Syngas generation from hydrocarbons and oxygenates with structured catalysts / V. Sadykov ... [et al.] -- Preparation of thin-film Pd membranes for H2 separation from synthesis gas and detailed design of a permeability testing unit / M. Bientinesi and L. Petarca -- Fischer-Tropsch synthesis with Fe-based catalysts / M. Ojeda ... [et al.] -- Syngas production in membrane reactors / Fausto Gallucci and Angelo Basile -- Reformer and membrane modules plant to optimize natural gas conversion to hydrogen / M. De Falco ... [et al.] -- Recent developments of Fischer-Tropsch synthesis catalysts - preparation and characterization / Naoto Koizumi ... [et al.] -- High temperature electrolysis of steam and CO2 for syngas production / Carl M. Stoots ... [et al.] -- Chemical looping reforming for syngas generation from natural gas-based on results from a 120 KW fuel power installation / Johannes Bolhar-Nordenkampf ... [et al.] -- Partial oxidation of methane over zirconia and magnesia-supported ruthenium and rhodium catalysts / Maria do Carmo Rangel ... [et al.] -- Technologies of syngas production from biomass generated gases / Simone Albertazzi ... [et al.] -- Process for conversion of coal to substitute natural gas / Meyer Steinberg.
Sommario/riassunto	"Syngas is the name given to a gas mixture that contains varying amounts of carbon monoxide and hydrogen. Examples of production

methods include steam reforming of natural gas or liquid hydrocarbons to produce hydrogen, the gasification of coal and in some types of waste-to-energy gasification facilities. Syngas is also used as an intermediate in producing synthetic petroleum for use as a fuel or lubricant via Fischer-Tropsch synthesis and previously the Mobil methanol to gasoline process. Syngas consists primarily of hydrogen, carbon monoxide, and very often some carbon dioxide, and has less than half the energy density of natural gas. It is combustible and often used as a fuel source or as an intermediate for the production of other chemicals. This new book gathers the latest research from around the globe in this dynamic field covering topics such as syngas production from biomass generated gases, recent developments of Fischer-Tropsch synthesis catalysts, syngas cleaning technologies, and new syngas utilizations at different stages of deployment."--Publisher's description.
